

**City of Newport Beach
Water Quality/Coastal Tidelands Committee Minutes**

Date: November 13, 2014

Time: 3:00 p.m.

Location: Newport Coast Conference Room, 2nd Floor, Bay E

1. Welcome/Self Introductions

Committee Members present:

Chairwoman/Council Member Nancy Gardner

Mike Henn/Council Member

Fred Galluccio

Tom Houston

Dennis Baker

Carl Cassidy

George Robertson

Guests present:

Jim Mosher, resident

Nancy and Jack Skinner, S.P.O.N.

Monica Mazur, resident

Kate Klimow, UCI

Richard Demerjian, UCI

Judith Marquez, Innovare4Water

Staff present:

George Murdoch, Utilities General Manager/Municipal Operations Co-Director

Jim Auger, Operations Support Superintendent

John Kappeler, Water Quality Manager

Shari Rooks, Public Works Specialist

The agenda for the Water Quality/Coastal Tidelands Committee was posted at 3:25 pm on November 6, 2014, in the binder located in the entrance of the Council Chambers at 100 Civic Center Drive.

2. Approval of Previous Meeting's Minutes

The October 9, 2014 meeting minutes were approved.

3. Old Business

a. Bay and Ocean Bacteriological Test Results

Monica Mazur reviewed recent water quality test results within Newport Bay and along the ocean shoreline.

- Two days of rain in late October/ early November caused hits at two sites in the lower bay – 33rd Street and 38th Street.
- **John Kappeler** noted that the City is installing a Continuous Deflective Separation (CDS) unit at Channel Place Park and the construction may have stirred things up in that vicinity.

b. 2014 Committee Goals and Priorities

- Committee will focus on one of the current goals at this meeting – see new business item “private street catch basin cleaning and street sweeping”.

4. New Business

a. Private Streets Catch Basin Cleaning Program – George Murdoch gave the Committee an update on catch basin cleaning and street sweeping performed by the City and areas where the City does not clean or sweep.

- After staff looked at many of the storm drains and catch basins in private communities and seeing that they were bolted down and have never been touched staff is reasonably sure that most private communities are not maintaining either the storm drain system or the catch basins.
- A discussion took place as to which of the following options mentioned in the previous month's meeting would be supported by the committee and recommended to City Council for approval:
 1. Have City contractor maintain all non-maintained catch basins in the City for \$35K per year.
 2. Require communities to have a connection permit that we could enforce.
 3. Create a municipal code or ordinance requiring communities to maintain their catch basins and street sweeping because those two activities generally go hand in hand.
- If the City's contractor were to clean the storm drains and catch basins it would eliminate the need for extra staff time to inspect and enforce the cleaning because the contractor currently provides the City with a report of what they've cleaned, what they've found and what repairs were necessary all based on the City's standards.
- There may be some costs incurred to alter posting signage and alter trash collection schedules in order to accommodate the citywide storm drain and catch basin cleaning if approved by Council.
- **John Kappeler** noted that the National Pollutant Discharge Elimination System (NPDES) permit very clear on precise catch basin cleaning requirements but with regards to street sweeping the Regional Board only requires that we present a program to them and they basically “bless it.”
- **Chairperson Nancy Gardner** asked for a show of hands from committee members who were in favor of recommending the citywide cleaning of storm drains and catch basins to the incoming City Council. All present raised their hand.

ACTION: Have staff prepare a report with the committee's accomplishments and recommendation regarding the citywide cleaning of storm drains and catch basins. Bring the item to Council after the first of the year and have all members of the committee present to support the report.

b. University of California Irvine (UCI) – Richard Demerjian, Director of Environmental Planning & Sustainability gave a presentation on UCI's sustainability and conservation efforts (See attached presentation).

- UCI was recognized by the Sierra Club this year as the Greenest Campus in the United States. The University's land resources are considered living laboratories for

sustainability. In addition to the UCI Main Campus, the other locations are the UCI Medical Center, The Santa Ana Family Health Clinic, the Burns Pinyon Ridge Reserve in Yucca Valley and the Anza Borrego Desert Research Center.

- The UCI Main Campus consists of 1,500 + acres, 400 acres of Open Space and Habitat and a 200-acre San Joaquin Marsh Reserve.
- UCI's sustainability policy and program focuses on these areas:
 - Climate Protection (Reducing Green House Gas emissions by 2020 and the goal is to be climate neutral by 2025)
 - Clean and Renewable Energy (Rooftop Solar Panels & Thermal Energy Storage Tanks)
 - Green Building (All new campus buildings completed since 2005 have achieved Leadership in Energy and Environmental Design (LEED) Platinum or Gold rating – 12 Platinum + 8 Gold)
 - Water Resources (Plumbing Retrofits and Upgrades, Turf Removal, Irrigation System Upgrades and Retrofits to use Reclaimed Water)
 - Urban Forestry & Ecosystems (Sustainable Landscaping, Community Gardens, Plant Nursery)
 - Recycling and Waste Management
 - Transportation
 - Purchasing and Supply Chain
 - Food & Dining Services
- **Jack Skinner** asked about the origin of the flow of drainage from the UCI campus into the San Diego Creek and the quality of the water. There is a 10-foot box culvert that is the main outfall for Turtle Rock and University Town Center and the entire campus – including basement dewatering.
- **Carl Cassidy** raised the question about possible increase in water costs in the future and **George Murdoch** responded by telling the Committee that within the next few months the Regional Board will be drafting a significant reduction in groundwater pumping it is likely that he will have to go to Council to request an additional \$1M to pay for the City's water as rates are expected to increase.
- **Dennis Baker** asked who was the "driver" of the UCI Programs would be and **Richard Demerjian** said on the campus it would be the Chancellor's office and he used the example of the Sustainability Initiative he put in place, and also said system-wide programs would be the University of California President's office in Oakland.

5. Public Comments on Non-Agenda Items

- **Nancy Gardner** requested patience during the transition period while new Council members appoint representatives to the Committee and they get up to speed with all the water quality issues the Committee has been dealing with over the years.
- **Nancy Gardner** advised **Judith Marquez** to coordinate with Bob Stein, Assistant City Engineer, who is familiar with the Delhi Channel and related projects. She has representatives from the Newport Mesa School District and the Surfrider Foundation, and asked to be placed on a future agenda to discuss her Trash Project for Storm Drains.

Topics for Future Agendas

- (a) Prop 84 ASBS Grant Program
- (b) Big Canyon Project
- (c) Rhine Channel Wrap Up
- (d) Senate Bill – SB 1447
- (e) Marine Protected Areas (MPAs)
- (f) Eelgrass Program
- (g) Trash Project for Storm Drains
- (h) Orange County Coastal Regional Sediment Management Plan
- (i) Sediment Quality Objectives (SQOs)
- (j) Home Owners Association's Common Area Turf Removal
- (k) Hold on to Your Butts

7. Set Next Meeting Date

The December 11, 2014 meeting was canceled and the next meeting date was set for January 8, 2015 at 3 PM in the **Newport Coast Conference Room, Bay E, 2nd Floor.**

8. Adjournment

The meeting was adjourned at 4:10 pm.

Chairwoman / Nancy Gardner

OCSD Bacteriological Ocean Monitoring Program
Tijuana, California (TC) Estuary, San Diego, California (SD)

Total Coliform (TC), Fecal Coliform (FC), Enterococcus (ENT) Colony Forming Units/100 ml Sample

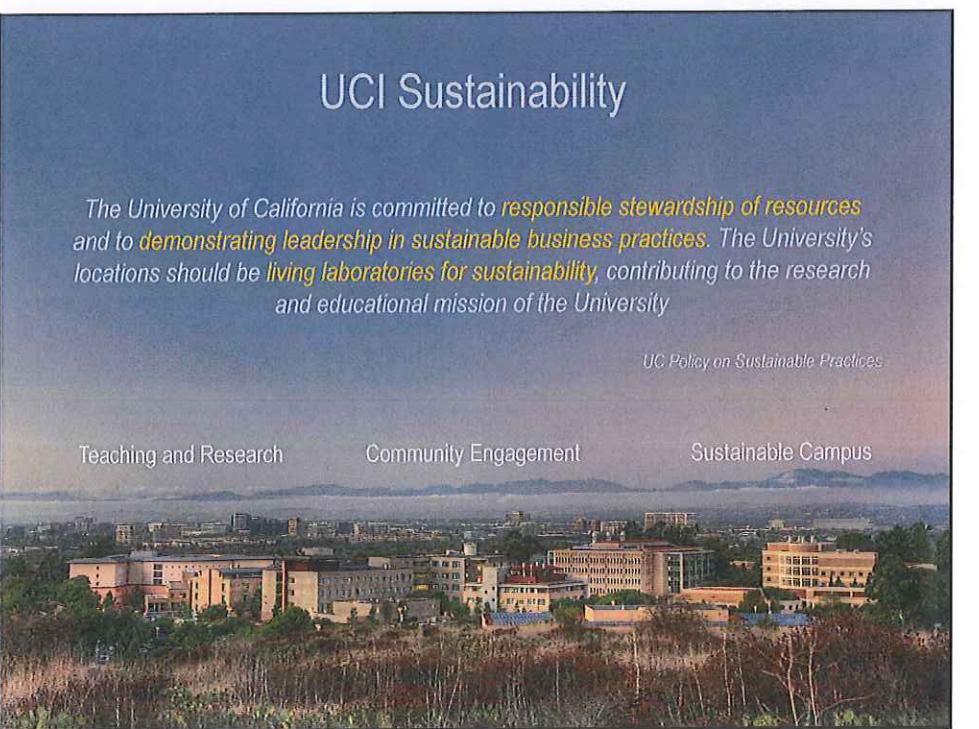
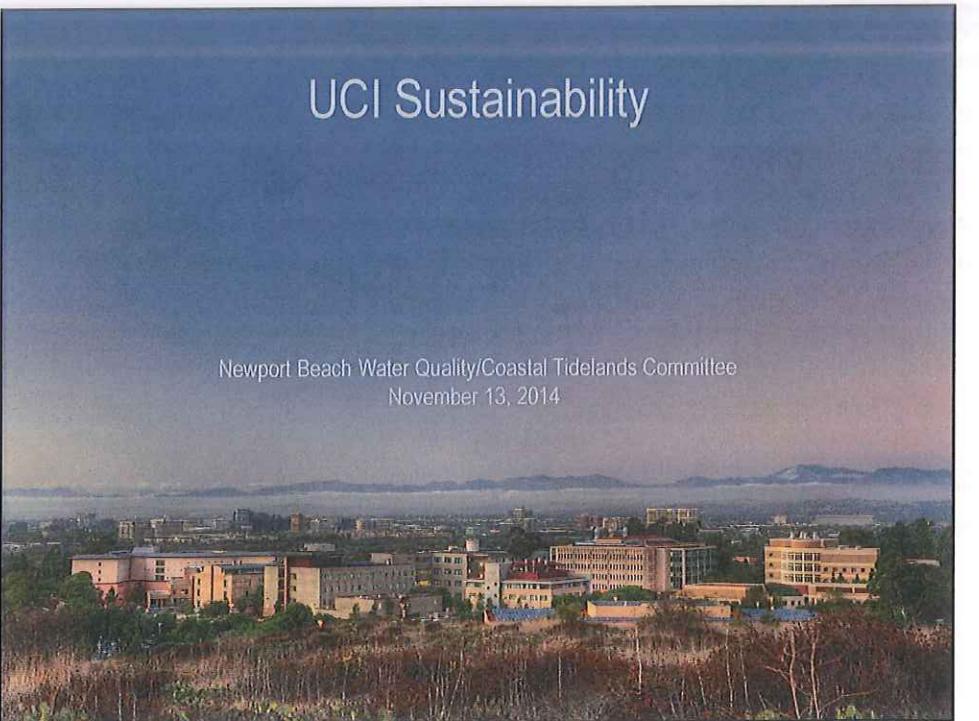
222 7/23 7/29 7/30 8/5 8/6 8/12 8/13 8/19 8/20 8/26 8/27 9/2

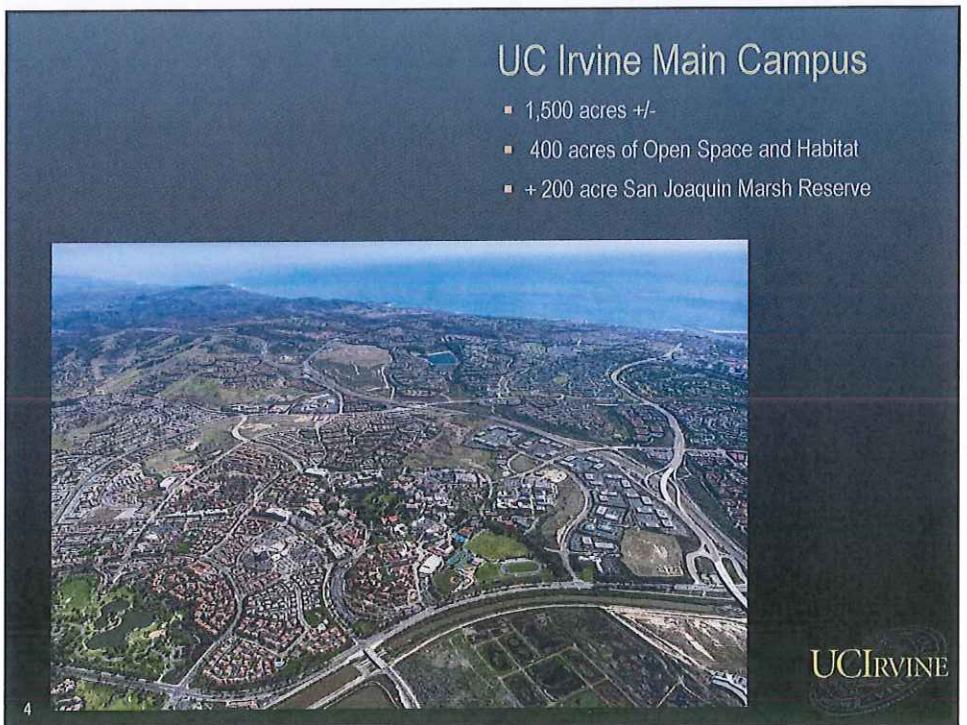
117	17	17	67	<17	50	17
33	<17	17	120	17	17	17

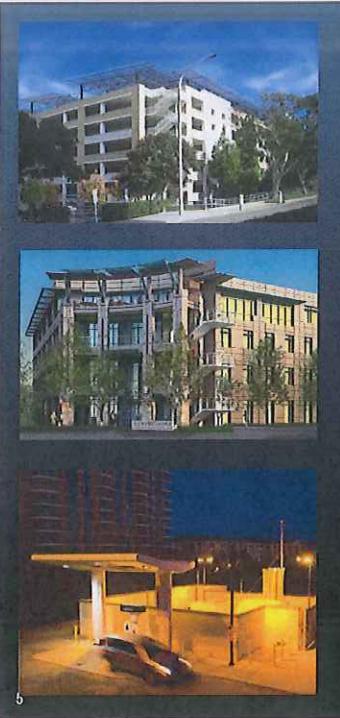
Health Care Agency / Environmental Health Newport Bay Bacteriological Monitoring Program
 Total Coliform (TC), Fecal Coliform, Enterococcus (ENT) Colony Forming Units / 100 ml Sample

STATION	Location Description	6/30/14	7/7/14	7/14/14	7/21/14	7/28/14	8/4/14	8/11/14	8/18/14	8/25/14	9/2/14	9/8/14	9/15/14	9/23/14	9/29/14	10/6/14	10/13/14	10/20/14	10/27/14	11/3/14
NEWPORT BAY (Lower Bay)																				
BNB09	43rd Street Beach	TC >95	>150	>240	>200	>340	>200	<10	60	20	20	>300	>2400	50	150	>60	>20	>390	<10	>580
		FC <10	<10	20	<10	10	>10	<10	<10	10	10	280	10	10	10	<10	<10	<10	<10	
		ENT 4	10	10	<2	2	20	<2	<2	<2	<2	<10	4	2	2	2	160	2	100	
BNB10	38th Street Beach	TC >150	>50	>80	>20	>340	>190	>450	<10	80	>10	>40	>20	>60	10	390	30	>420	10	>860
		FC 80	<10	30	<10	>10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
		ENT 10	36	10	2	6	34	2	<2	<2	<2	6	4	4	<2	<2	6	170	<2	
BNB11	33rd Street Channel	TC >500	>340	>80	>50	>260	>6400	<10	120	10	<10	>120	<10	10	10	>20	150	20	>17000	
		FC <10	30	<10	<10	>40	>360	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
		ENT 10	20	4	4	2	400	<2	<2	<2	<2	<2	40	<2	2	<2	10	4	<2	
BNB32	Lido Yacht Club Beach	TC >170	>95	<10	>20	<10	>10	10	>10	30	110	>10	>30	70	20	>10	<10	20	>20000	
		FC 100	<10	<10	<10	10	<10	<10	<10	<10	40	<10	<10	30	<10	<10	<10	<10	<10	
		ENT <2	46	2	4	<2	8	82	<2	10	2	48	<2	6	<2	<2	<2	10	80	
BNB07	Via Genoa Beach	TC >10	20	110	70	10	>10	<10	<10	10	10	<10	<10	>80	20	<10	10	920		
		FC 10	30	10	120	10	<10	20	<10	10	10	<10	10	<10	<10	<10	<10	<10	>580	
		ENT <2	26	2	4	2	<2	6	2	2	<2	6	10	<2	<2	20	2	<2	56	
BNB35	Newport Blvd. Bridge	TC >15000	>630	>9400	9000	30	>8600	30	<10	80	15000	>1150	19000	<10	>10	>1450	60	30	<10	>40000
		FC 6600	170	5800	6800	10	1130	10	<10	<10	5800	270	880	<10	<10	60	<10	<10	<10	5200
		ENT 180	180	2400	4	6	140	<2	<2	2	34	52	46	<2	<2	22	<2	8	<2	800
BNB12	Rhine Channel	TC >200	>40	>260	30	30	>150	<10	80	20	>200	110	50	20	40	20	>10	10	200	>17000
		FC 20	<10	30	80	10	30	<10	20	<10	<10	30	<10	20	<10	<10	10	30	1130	
		ENT 4	<2	4	<2	2	<2	2	6	<2	20	<2	<2	<2	<2	<2	2	48		
BNB14	19th Street Beach	TC 40	10	<10	>30	70	10	>40	50	10	<10	NS	NS	NS	NS	NS	NS	NS	>13000	
		FC <10	<10	<10	<10	<10	<10	80	<10	10	<10	NS	NS	NS	NS	NS	NS	NS	800	
		ENT <2	<2	<2	<2	<2	<2	60	<2	NS	<2	NS	NS	NS	NS	NS	NS	NS	34	
BNB15	15th Street Beach	TC 40	>110	10	50	210	40	60	30	10	<10	>120	>40	60	30	10	620	780	40	>16000
		FC <10	30	<10	10	<10	<10	20	<10	<10	<10	10	<10	<10	<10	<10	95	<10	3200	
		ENT 20	2	2	2	66	<2	<2	2	<2	2	10	44	<2	<2	4	8	8	4	120
BNB17	10th Street Beach	TC >10	20	<10	>20	40	10	10	<10	30	>50	10	40	10	10	>320	<10	>9600		
		FC <10	<10	10	<10	10	<10	10	<10	10	<10	10	20	10	<10	<10	110	<10	>320	
		ENT 2	<2	<2	6	2	<2	<2	<2	<2	<2	2	6	<2	<2	<2	20	2	32	
BNB18	Alvarado/ Bay Isle Beach	TC >30	<200	40	10	>20	10	<10	<10	<10	10	40	20	80	40	10	30	50	>18000	
		FC 20	<10	<10	<10	20	<10	10	<10	10	<10	<10	<10	<10	<10	<10	10	<10	10	>1380
		ENT <2	<2	<2	<2	<2	<2	4	2	<2	<2	2	<2	6	<2	<2	2	<2	52	
BNB22	N Street Beach	TC 30	>20	<10	<10	>10	10	<10	<10	<10	10	<10	10	<10	10	<10	20	30	<10	>15000
		FC <10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	<10	20	<10
		ENT <2	<2	<2	2	4	2	<2	<2	<2	<2	2	2	<2	4	2	2	<2	56	
BNB31	Garnet Avenue Beach	TC >10	>30	>50	>160	10	120	>40	20	1300	<10	>70	30	>20	>250	>70	>60	80	10	>13000
		FC <10	10	30	80	<10	>70	30	10	<10	<10	50	30	20	60	20	10	<10	420	
		ENT <2	4	8	10	4	120	42	40	10	6	20	4	8	20	4	6	<2	58	
BNB03	Ruby Avenue Beach	TC <10	>20	>70	20	>180	<10	40	20	10	<10	30	10	40	1120	80	10	50	>1100	
		FC 20	<10	30	10	20	<10	30	<10	<10	<10	20	20	10	550	30	<10	10	50	>420
		ENT <2	<2	8	2	76	<2	6	<2	<2	<2	10	2</							

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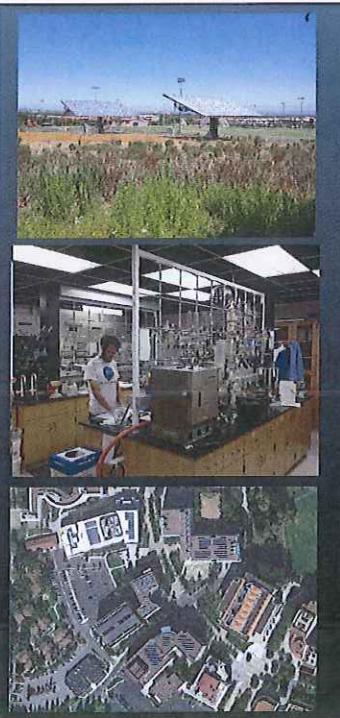




Sustainability Policy and Program Areas

- Climate Protection
- Clean and Renewable Energy
- Green Building
- Water Resources
- Urban Forestry & Ecosystems
- Recycling and Waste Management
- Transportation
- Purchasing & Supply Chain
- Food & Dining Services

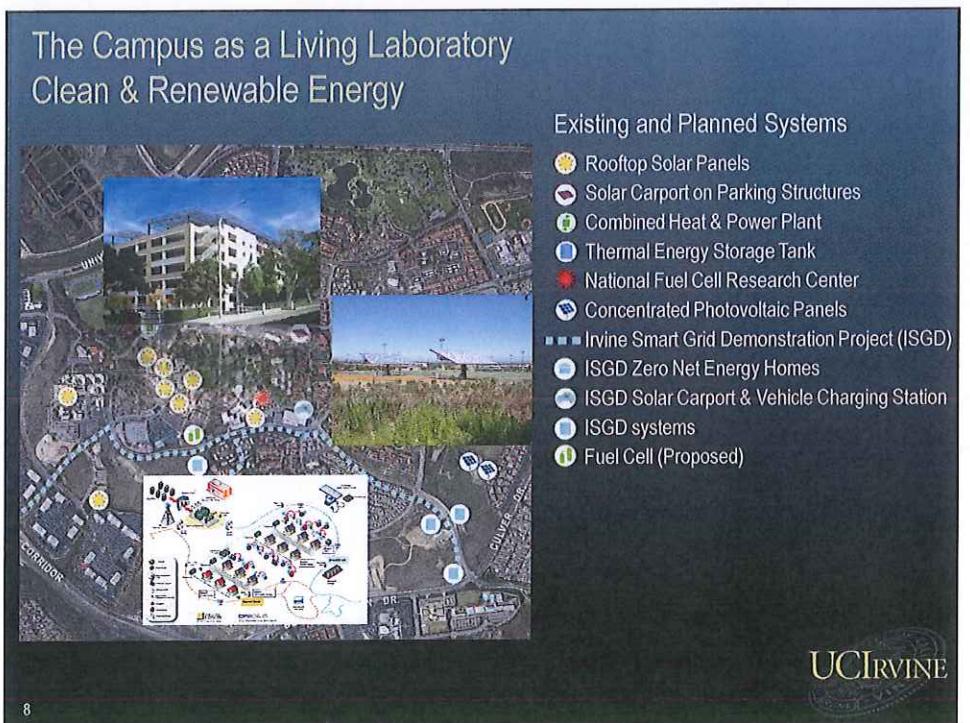
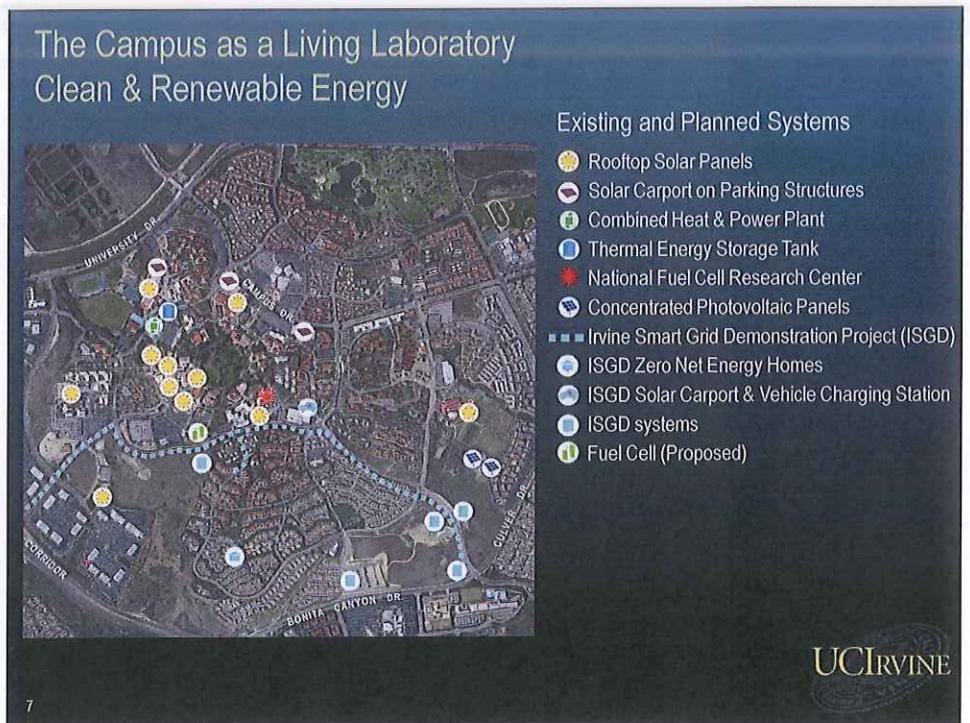
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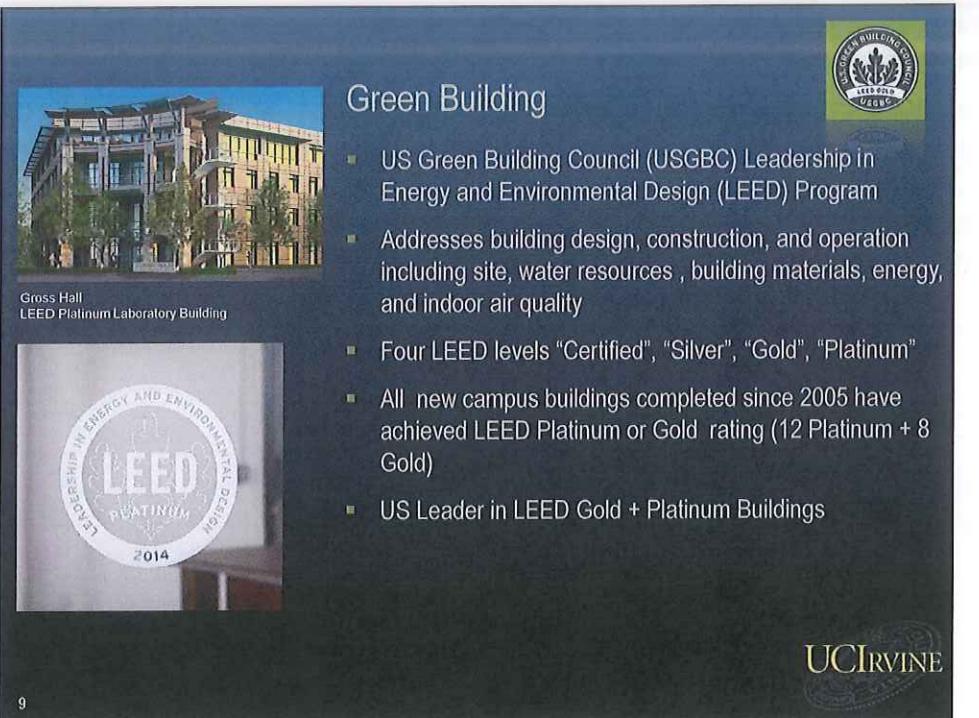


Climate Protection

- Reduce GHG emissions to 1990 levels by 2020
- Climate neutral operations by 2025
- UCI Climate Action Plan (CAP) provides roadmap of campus wide programs, projects and initiatives to achieve goals
- Community-wide engagement required to succeed
- Several CAP programs have received national recognition

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Green Building

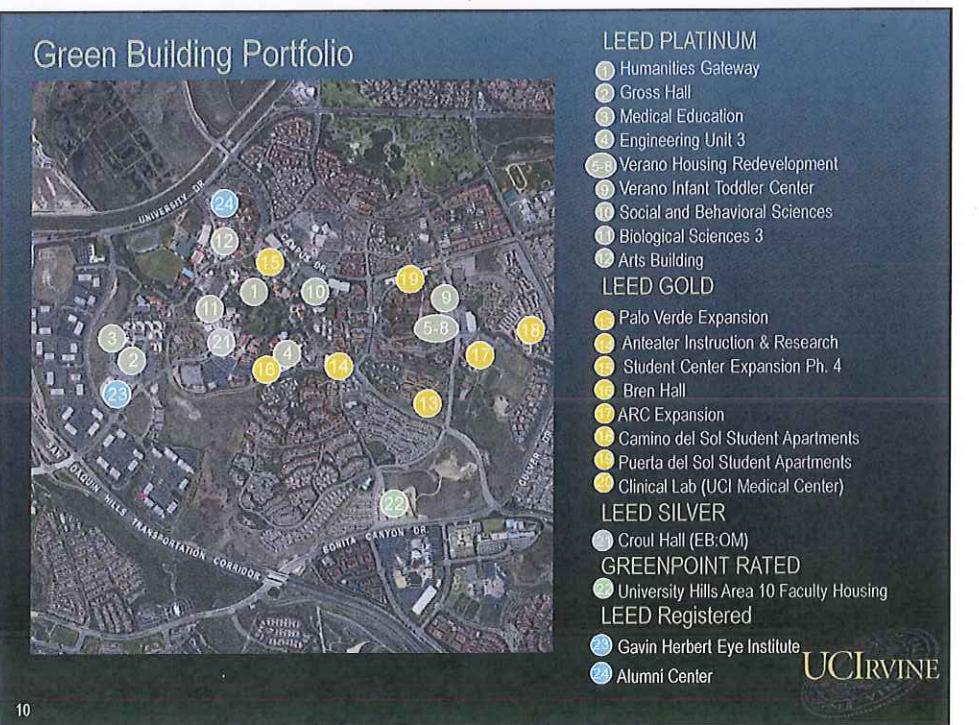
- US Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) Program
- Addresses building design, construction, and operation including site, water resources , building materials, energy, and indoor air quality
- Four LEED levels "Certified", "Silver", "Gold", "Platinum"
- All new campus buildings completed since 2005 have achieved LEED Platinum or Gold rating (12 Platinum + 8 Gold)
- US Leader in LEED Gold + Platinum Buildings

Gross Hall
LEED Platinum Laboratory Building

LEED PLATINUM 2014

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Green Building Portfolio

LEED PLATINUM

- 1 Humanities Gateway
- 2 Gross Hall
- 3 Medical Education
- 4 Engineering Unit 3
- 5-8 Verano Housing Redevelopment
- 9 Verano Infant Toddler Center
- 10 Social and Behavioral Sciences
- 11 Biological Sciences 3
- 12 Arts Building

LEED GOLD

- 13 Palo Verde Expansion
- 14 Anteater Instruction & Research
- 15 Student Center Expansion Ph. 4
- 16 Bren Hall
- 17 ARC Expansion
- 18 Camino del Sol Student Apartments
- 19 Puerta del Sol Student Apartments
- 20 Clinical Lab (UCI Medical Center)

LEED SILVER

- 21 Croul Hall (EB:OM)

GREENPOINT RATED

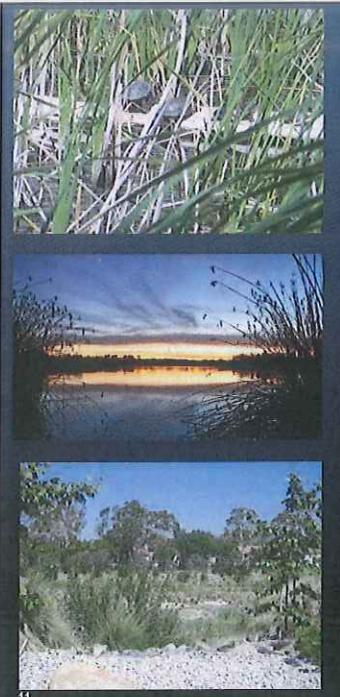
- 22 University Hills Area 10 Faculty Housing

LEED Registered

- 23 Gavin Herbert Eye Institute
- 24 Alumni Center

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Sustainable Water Systems

- Reduce per capita water use by 20% by 2020 + stretch goal of +10% (30%)
- UCI Water Action Plan
 - Identifies programs, projects and initiatives for achieving 30% goal
 - Water quality and watershed protection
- 2013-14 Drought Response
- Currently tracking ahead of 2020 goal

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Sustainable Water Systems

Water Action Plan Strategies

Overall

- Detailed water audit for campus & Medical Center
- Improve monitoring/metering/measuring
- Laboratory Water Audit

Potable Water Reduction Examples:

- Potable irrigation conversion to recycled (14 MG annual savings)
- Plumbing retrofits/upgrades (4.5 MG annual savings)
- Autoclave retrofits (6 MG annual savings)

Recycled Water Reduction Examples

- Turf removal
- 30% irrigation reduction pilot
- Irrigation system upgrades

Outreach & Education

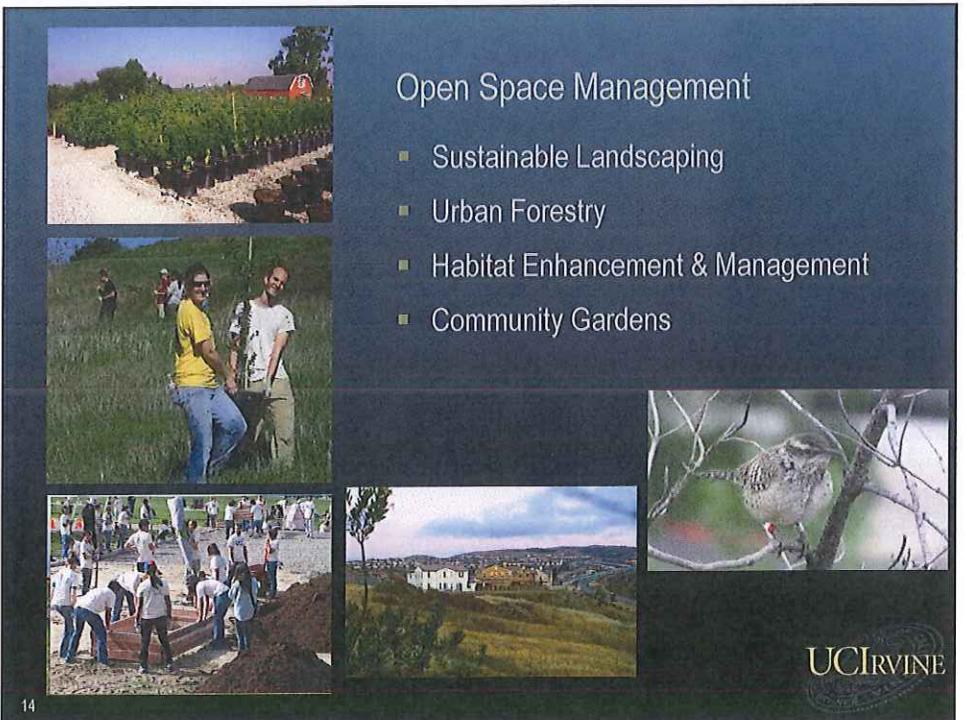
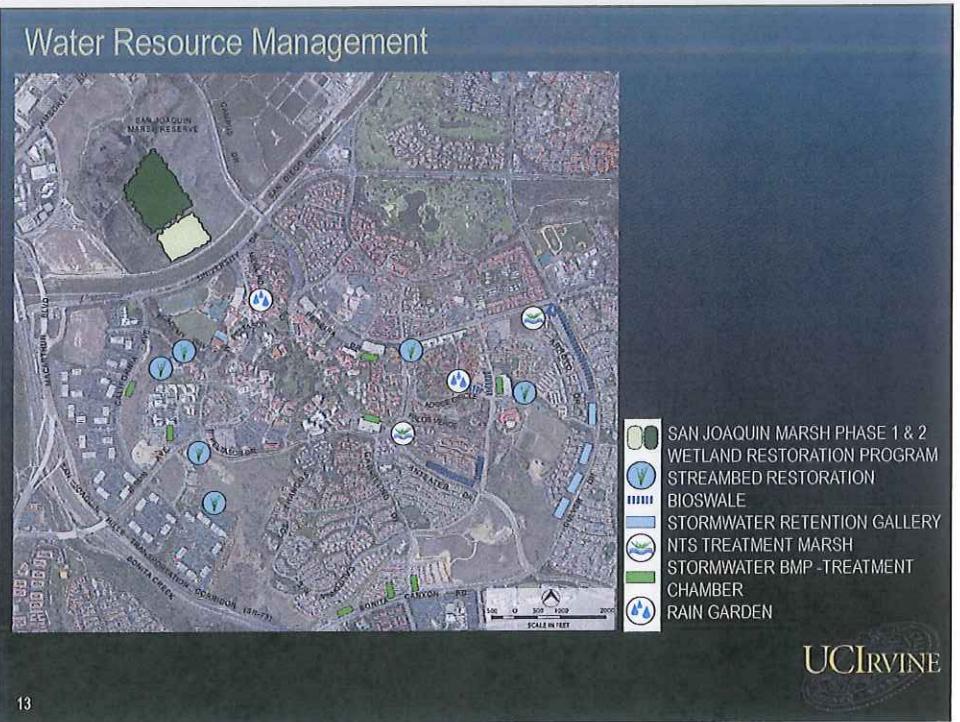
- Expand outreach & educational campaigns



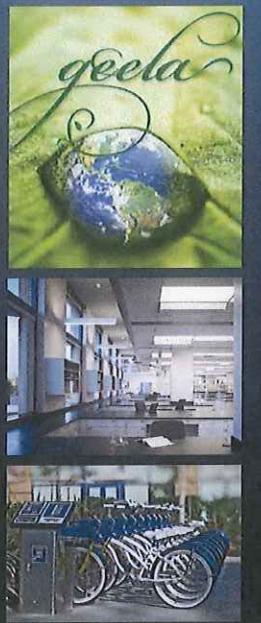
Middle Field Turf Removal

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National Recognition for Sustainability Accomplishments



- Governor's Environmental & Economic Leadership Award (2008 & 2013)
- EPA Climate Leadership Award (2014)
- Ranked #1 in U.S. by Sierra Club Cool Schools Program (Top Ten 2010-2014)
- Princeton Review Green College Honor Roll (Top 25 in US) 2014 & 2015
- Top U.S. University in LEED Platinum Buildings
- 2011 Second Nature Climate Leadership Award
- 2011 Urban Land Institute's "Best of the Best" Award for campuswide sustainability
- League of American Bicyclists' "Bicycle Friendly University" (Silver)
- ASE & SCE Cool Planet Award for Environmental Leadership

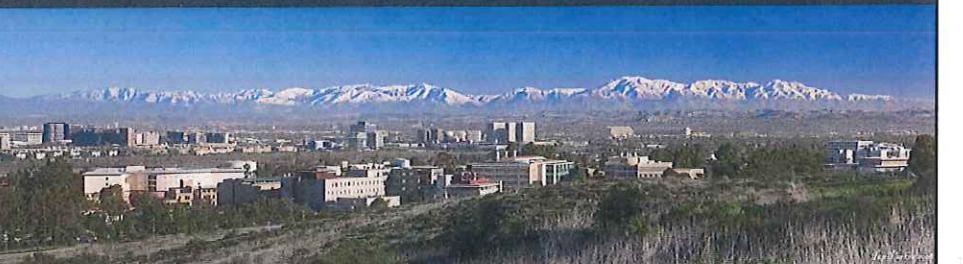
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UCI Sustainability Website

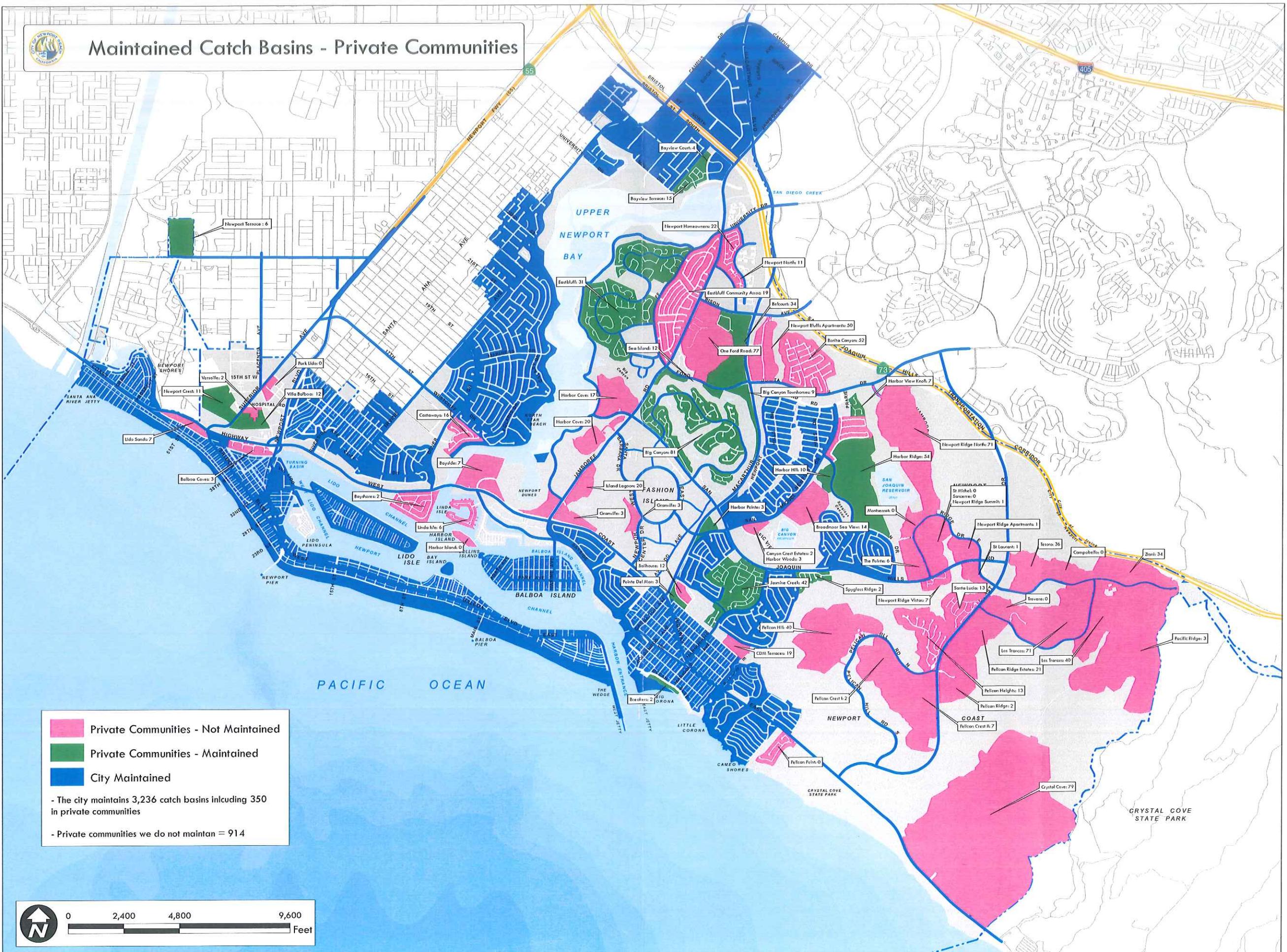
Education Research Sustainable Campus Student Involvement Engagement

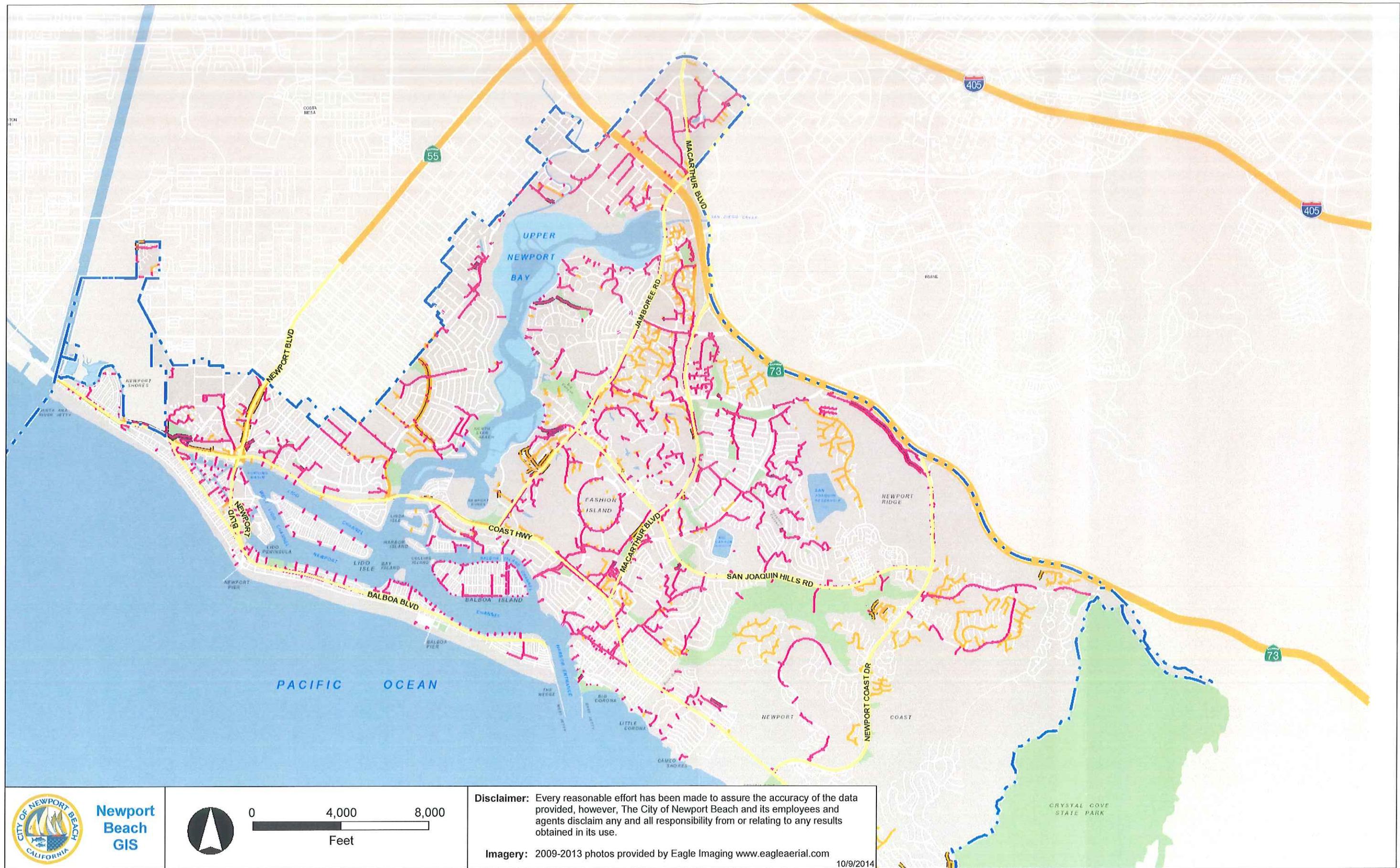
www.sustainability.uci.edu



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 - Green Building (All new campus buildings completed since 2005 have achieved Leadership in Energy and Environmental Design (LEED) Platinum or Gold rating – 12 Platinum + 8 Gold)
 - Water Resources (Plumbing Retrofits and Upgrades, Turf Removal, Irrigation System Upgrades and Retrofits to use Reclaimed Water)
 - Urban Forestry & Ecosystems (Sustainable Landscaping, Community Gardens, Plant Nursery)
 - Recycling and Waste Management
 - Transportation
 - Purchasing and Supply Chain
 - Food & Dining Services
- **Jack Skinner** asked about the origin of the flow of drainage from the UCI campus into the San Diego Creek and the quality of the water. There is a 10-foot box culvert that is the main outfall for Turtle Rock and University Town Center and the entire campus – including basement dewatering.
- **Carl Cassidy** raised the question about possible increase in water costs in the future and **George Murdoch** responded by telling the Committee that within the next few months the Regional Board will be drafting a significant reduction in groundwater pumping it is likely that he will have to go to Council to request an additional \$1M to pay for the City's water as rates are expected to increase.
- **Dennis Baker** asked who was the "driver" of the UCI Programs would be and **Richard Demerjian** said on the campus it would be the Chancellor's office and he used the example of the Sustainability Initiative he put in place, and also said system-wide programs would be the University of California President's office in Oakland.

5. Public Comments on Non-Agenda Items

- **Nancy Gardner** requested patience during the transition period while new Council members appoint representatives to the Committee and they get up to speed with all the water quality issues the Committee has been dealing with over the years.
- **Nancy Gardner** advised **Judith Marquez** to coordinate with Bob Stein, Assistant City Engineer, who is familiar with the Delhi Channel and related projects. She has representatives from the Newport Mesa School District and the Surfrider Foundation, and asked to be placed on a future agenda to discuss her Trash Project for Storm Drains.

Topics for Future Agendas

- (a) Prop 84 ASBS Grant Program
- (b) Big Canyon Project
- (c) Rhine Channel Wrap Up
- (d) Senate Bill - SB 1447
- (e) Marine Protected Areas (MPAs)
- (f) Eelgrass Program
- (g) Trash Project for Storm Drains
- (h) Orange County Coastal Regional Sediment Management Plan
- (i) Sediment Quality Objectives (SQOs)
- (j) Home Owners Association's Common Area Turf Removal
- (k) Hold on to Your Butts

7. Set Next Meeting Date

The December 11, 2014 meeting was canceled and the next meeting date was set for January 8, 2015 at 3 PM in the **Newport Coast Conference Room, Bay E, 2nd Floor**.

8. Adjournment

The meeting was adjourned at 4:10 pm.

Chairwoman / Nancy Gardner

OCSD Bacteriological Ocean Monitoring Program
Total Coliform (TC) Facial Coliform (FC)

Total Coliform (TC), Fecal Coliform (FC), Enterococcus (ENT) Colony Forming Units/100 mL Sample

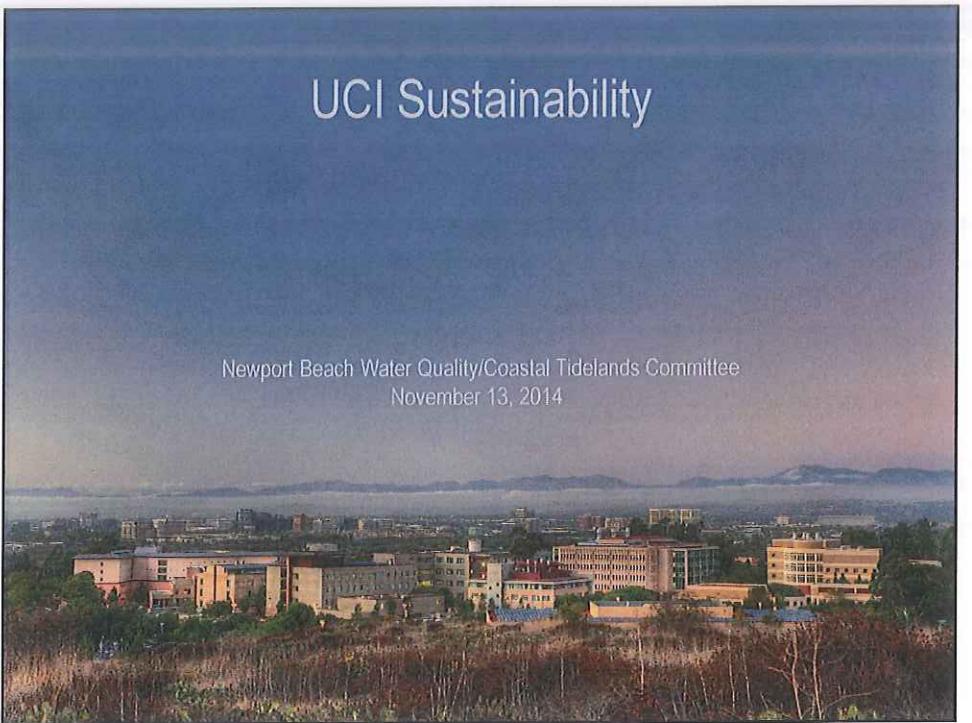
222 7/23 7/29 7/30 8/5 8/6 8/12 8/13 8/19 8/20 8/26 8/27

Health Care Agency / Environmental Health Newport Bay Bacteriological Monitoring Program
 Total Coliform (TC), Fecal Coliform, Enterococcus (ENT) Colony Forming Units / 100 ml Sample

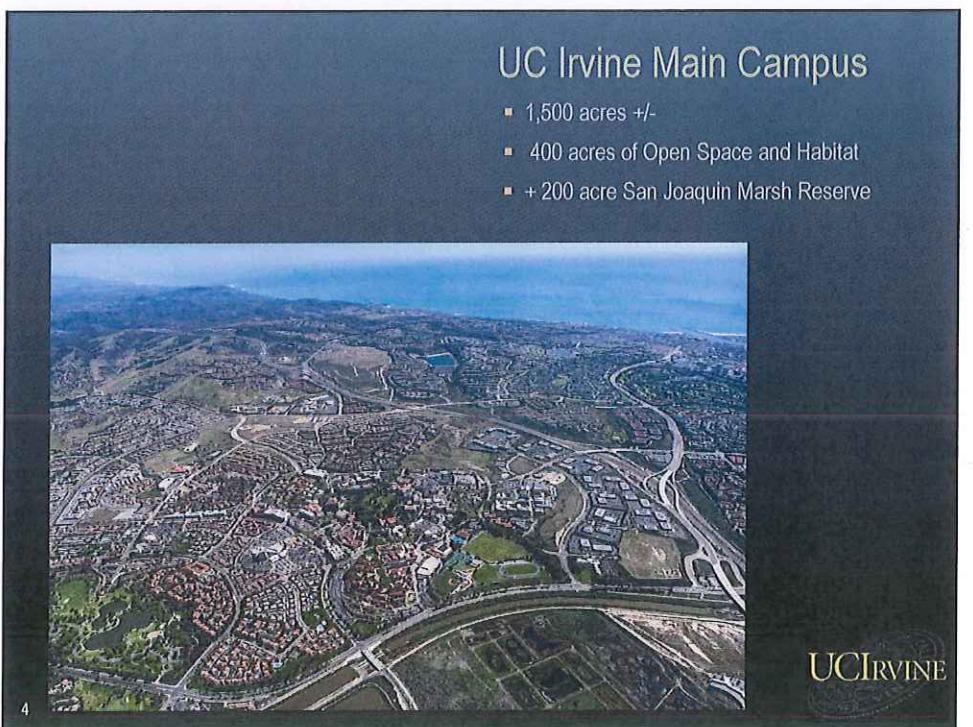
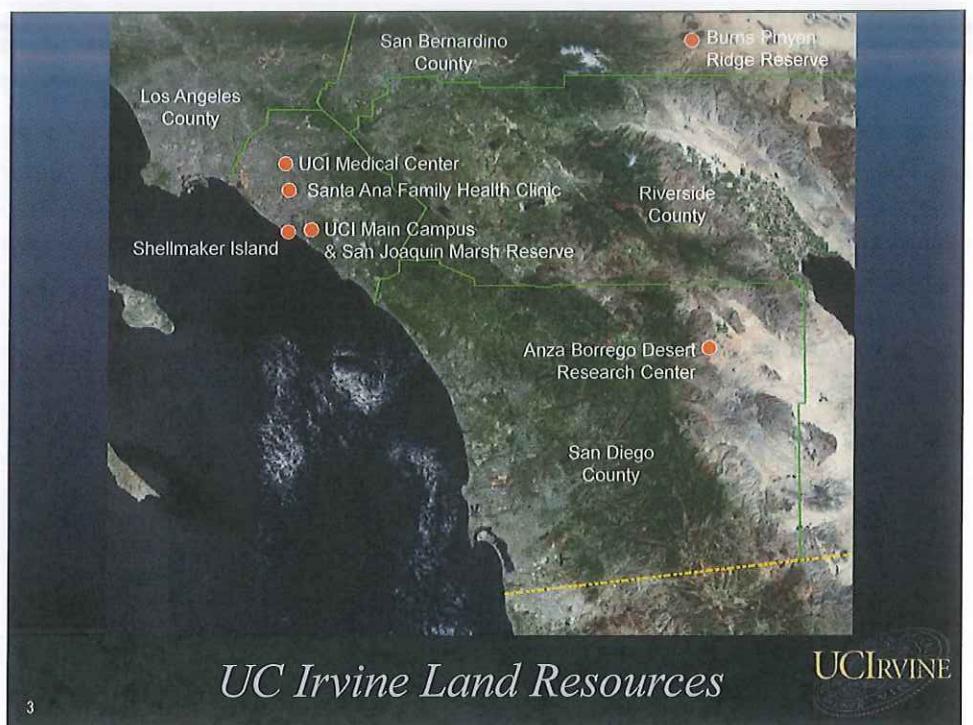
STATION	Location Description	6/30/14	7/7/14	7/14/14	7/21/14	7/28/14	8/4/14	8/11/14	8/18/14	8/25/14	9/2/14	9/8/14	9/15/14	9/23/14	9/29/14	10/6/14	10/14/14	10/20/14	10/27/14	11/3/14	
NEWPORT BAY (Lower Bay)																				RAIN	
BNB09	43rd Street Beach	TC >95	>150	>240	>200	>340	>200	<10	60	20	20	>300	>2400	50	150	>60	>20	>390	<10	>580	
		FC <10	<10	20	<10	10	>10	<10	<10	10	10	280	10	10	10	<10	<10	<10	<10	140	
		ENT 4	10	10	<2	2	20	<2	2	<2	<2	10	4	2	2	160	2	100			
BNB10	38th Street Beach	TC >150	>50	>80	>20	>340	>190	>450	<10	80	>10	>40	>20	>60	10	390	30	>420	10	>860	
		FC 80	<10	30	<10	>10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	>190	
		ENT 10	36	10	2	6	34	2	<2	<2	<2	6	4	4	<2	<2	6	170	<2	92	
BNB11	33rd Street Channel	TC >500	>340	>80	>50	>260	>6400	<10	120	10	<10	>120	<10	10	10	>20	150	20	>17000		
		FC <10	30	<10	<10	>40	>360	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	>370	
		ENT 10	20	4	4	2	400	<2	<2	<2	<2	40	<2	2	<2	10	4	<2	600		
BNB32	Lido Yacht Club Beach	TC >170	>95	<10	<10	>20	<10	>10	10	>10	30	110	<10	>30	70	20	>10	<10	20	>20000	
		FC 100	<10	<10	<10	10	<10	<10	<10	<10	40	<10	<10	30	<10	<10	<10	<10	<10	>470	
		ENT <2	46	2	4	2	8	82	<2	10	2	48	<2	6	<2	<2	10	80			
BNB07	Via Genoa Beach	TC >10	20	110	70	10	>10	<10	<10	10	10	10	<10	<10	<10	<10	<10	<10	10	920	
		FC 10	30	10	120	10	<10	20	<10	10	10	<10	10	<10	<10	<10	<10	<10	<10	>580	
		ENT <2	26	2	4	6	2	<2	6	10	<2	6	10	<2	<2	2	<2	56			
BNB35	Newport Blvd. Bridge	TC >15000	>630	>9400	9000	30	>8600	30	<10	80	15000	>1150	19000	<10	<10	>1450	60	30	<10	>40000	
		FC 6800	170	5800	6800	10	1130	10	<10	<10	5800	270	880	<10	<10	60	<10	<10	<10	5200	
		ENT 180	180	2400	4	6	140	<2	<2	2	34	52	46	<2	<2	22	8	<2	800		
BNB12	Rhine Channel	TC >200	>40	>260	30	30	>150	<10	80	20	>200	110	50	20	40	20	>10	10	200	>17000	
		FC 20	<10	30	80	10	30	<10	20	<10	<10	30	<10	20	<10	<10	10	30	1130		
		ENT 4	<2	4	<2	2	<2	2	6	<2	20	<2	<2	<2	<2	2	<2	48			
BNB14	19th Street Beach	TC 40	10	<10	>30	70	10	>40	50	10	<10	NS	NS	NS	NS	NS	NS	NS	>13000		
		FC <10	<10	<10	<10	<10	<10	80	<10	10	<10	NS	NS	NS	NS	NS	NS	NS	800		
		ENT <2	<2	<2	<2	<2	<2	60	<2	6	<2	NS	NS	NS	NS	NS	NS	NS	34		
BNB15	15th Street Beach	TC 40	>110	10	50	210	40	60	30	10	<10	>120	>40	60	30	10	620	780	40	>16000	
		FC <10	30	<10	10	<10	<10	20	<10	<10	<10	10	<10	<10	<10	<10	95	<10	3200		
		ENT 20	2	2	2	66	<2	<2	<2	2	10	44	<2	<2	4	8	8	4	120		
BNB17	10th Street Beach	TC >10	20	<10	>20	40	10	10	10	<10	30	>50	10	40	10	10	>320	<10	>9600		
		FC <10	<10	10	<10	10	<10	10	<10	10	<10	10	20	10	<10	<10	110	<10	>320		
		ENT 2	<2	<2	<2	6	2	<2	<2	<2	<2	2	6	<2	<2	<2	20	2	32		
BNB18	Alvarado/ Bay Isle Beach	TC >30	<200	40	10	>20	10	<10	<10	<10	10	40	10	20	80	40	10	30	50	>18000	
		FC 20	<10	<10	<10	10	<10	20	<10	10	<10	<10	<10	<10	<10	<10	<10	10	>1380		
		ENT <2	<2	<2	<2	4	2	<2	<2	<2	2	<2	6	<2	<2	2	<2	2	<2	52	
BNB22	N Street Beach	TC 30	>20	<10	<10	>10	10	<10	<10	10	<10	10	<10	<10	10	20	30	<10	<10	>15000	
		FC <10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	20	<10	660	
		ENT <2	<2	<2	<2	2	4	2	<2	<2	<2	2	2	<2	4	2	<2	<2	<2	56	
BNB31	Garnet Avenue Beach	TC >10	>30	>60	>160	10	120	>40	20	1300	<10	>70	30	>20	>250	>70	>60	80	10	>13000	
		FC <10	10	30	80	<10	>70	30	10	<10	50	30	20	60	20	10	<10	10	<10	420	
		ENT <2	4	8	10	4	120	42	40	10	6	20	4	6	8	20	4	6	<2	58	
BNB03	Ruby Avenue Beach	TC <10	>20	>70	20	>180	<10	40	20	10	<10	30	10	40	1120	80	10	50	>110	>4800	
		FC 20	<10	30</																	

Health Care Agency / Environmental Health Newport Bay Bacteriological Monitoring Program
Total Coliform (TC), Fecal Coliform (FC), Enterococcus (ENT) Colony Forming Units / 100 ml Sample

STATION	Location Description	6/30/14	7/7/14	7/14/14	7/21/14	7/28/14	8/4/14	8/11/14	8/18/14	8/25/14	9/2/14	9/8/14	9/15/14	9/23/14	9/29/14	10/6/14	10/14/14	10/20/14	10/27/14	
NEWPORT BAY (Upper Bay)																				
BNE24	Newport Dunes - Middle	TC >80	>120	30	>60	>30	>30	70	>30	>30	30	30	20	60	>60	<10	>10	60	RAIN	
	FC <10	<10	320	<10	20	<10	10	50	<10	10	<10	10	90	<10	<10	<10	<10	<10		
	ENT 22	<2	2	4	2	<2	8	4	6	<2	2	2	20	40	2	4	3	7000		
BNE24	Newport Dunes - West	TC >70	>150	<10	100	>50	>50	20	>20	>20	30	<10	<10	<10	80	<10	<10	<10	>1440	
	FC 50	<10	<10	20	10	<10	<10	10	<10	<10	30	<10	<10	<10	30	10	1190	20	>40000	
	ENT 10	<2	6	<2	6	2	2	4	4	2	<2	4	20	6	<2	44	20	6800		
BNE24	Newport Dunes - East	TC >70	>10	>30	>200	>10	>80	<10	50	>60	>140	10	>40	<10	>10	>10	>30	<10	>10000	
	FC 10	10	10	<10	20	<10	<10	30	<10	<10	70	40	<10	<10	<10	20	<10	<10	>10000	
	ENT 4	8	2	2	26	10	38	<2	10	4	52	4	42	<2	22	4	2	>34000		
BNE24	Newport Dunes - North	TC >20	>50	<10	>10	>40	>80	40	>20	20	20	>30	>30	>20	>20	>20	>20	>20	>20	
	FC <10	10	<10	<10	<10	<10	<10	10	<10	10	30	<10	<10	<10	<10	<10	<10	<10	<10000	
	ENT 2	4	10	4	<2	44	2	2	<2	10	8	4	<2	<2	6	6	6	7600		
BNE25	Vaughn's Launch	TC NS	NS	NS	NS	>10	NS	>10	NS	NS	>10	NS	<10	NS	>2600	>10	>10	NS	>2600	
	FC NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	<10	170	<10	10	NS	
	ENT NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2	78	2	NS	27800	NS		
BNE26	Ski Zone	TC NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	FC NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
BNE28	North Star Beach	TC >40	>70	20	20	<10	<10	>95	<10	50	<10	<10	<10	<10	<10	>95	>50	10	<10	NS
	FC <10	30	10	<10	20	<10	<10	20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10000	
	ENT 4	2	4	10	6	<2	2	4	8	<2	4	36	2	<2	4	10	4	2	56000	
BNE30	De Anza	TC >30	>10	50	>80	<10	>10	50	50	50	70	10	20	20	20	>20	80	80	>10000	
	FC 10	<10	<10	30	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10000	
	ENT 2	10	2	54	<2	4	4	<2	10	<2	4	4	<2	<2	6	<2	6	600		
BNE35	Bayshore Beach	TC <10	40	10	10	<10	<10	40	50	10	<10	60	>300	20	>240	20	>20	20	>10000	
	FC 20	<10	10	<10	<10	<10	<10	20	10	<10	<10	30	10	<10	<10	<10	<10	<10	<10000	
	ENT 2	<2	4	<2	<2	<2	<2	4	2	4	2	94	2	<2	<2	20	<2	4	<1000	
NEWPORT BAY TRIBUTARIES																				
CNBED	San Diego Creek - Campus Dr.	TC 200	>1000	>90	>300	>290	>100	>270	>1500	>2800	>4000	>2300	>3400	>2200	>2200	>3300	>3300	>4400	NS	
	FC 10	>50	10	>220	140	>230	70	120	140	>220	>160	>260	320	190	280	>220	800	800	NS	
	ENT 8	24	20	60	86	100	76	30	110	78	216	120	140	98	58	68	100	100	190	
CNESA	Santa Ana Delhi Channel	TC >6500	>920	>800	>15000	>2900	>1800	>1300	>2400	>2700	>3600	>900	>14600	>9000	>4300	>2800	>4700	>22000	>3100	>200000
	FC 1070	>270	>270	>370	>710	>160	>210	250	>380	>380	7600	7200	550	2200	1100	7600	>490	>10000	NS	
	ENT 800	140	238	96	150	150	26	48	52	92	76	1000	78	40	1000	600	20	9200		
CNBEC	Big Canyon Creek	TC >7200	>7000	>200	>6000	>4000	>5000	>4000	>6000	>6000	>6000	>6000	>6000	>6000	>4000	>4000	>2050	>500	>5000	
	FC 60	240	150	330	95	310	>340	320	800	NS	1260	310	450	300	30	150	320	770	360	
	ENT 76	170	150	400	212	277	240	251	392	NS	1000	600	98	1000	8	96	150	240	190	
CNBID	Backbay Drive Pipe	TC NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	FC NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	ENT NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
NEWPORT SLough																				
BNS01	Lancaster Street & 61st Street	TC >40	>50	10	>20	>200	270	10	>70	>510	<10	>20	>20	>310	>10	>310	<10	<10	<10	NS
	FC <10	20	<10	10	30	200	<10	10	<10	70	<10	20	<10	10	10	10	<10	<10	<10	NS
	ENT 2	4	6	<2																



A presentation slide titled "UCI Sustainability" in white text at the top left. It contains a quote in yellow text: "The University of California is committed to responsible stewardship of resources and to demonstrating leadership in sustainable business practices. The University's locations should be living laboratories for sustainability, contributing to the research and educational mission of the University." Below the quote, it says "UC Policy on Sustainable Practices". At the bottom, there are three categories: "Teaching and Research", "Community Engagement", and "Sustainable Campus". The background of the slide is a photograph of a university campus with buildings and mountains in the distance under a clear sky.

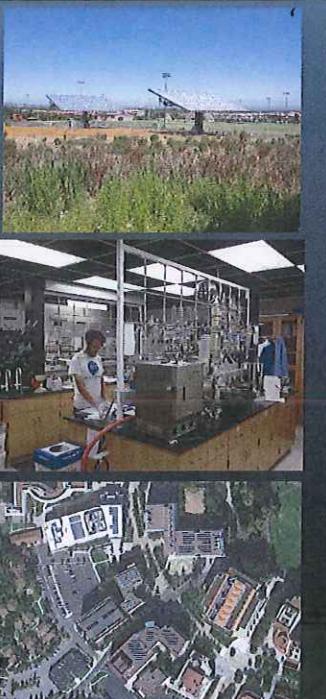




Sustainability Policy and Program Areas

- Climate Protection
- Clean and Renewable Energy
- Green Building
- Water Resources
- Urban Forestry & Ecosystems
- Recycling and Waste Management
- Transportation
- Purchasing & Supply Chain
- Food & Dining Services

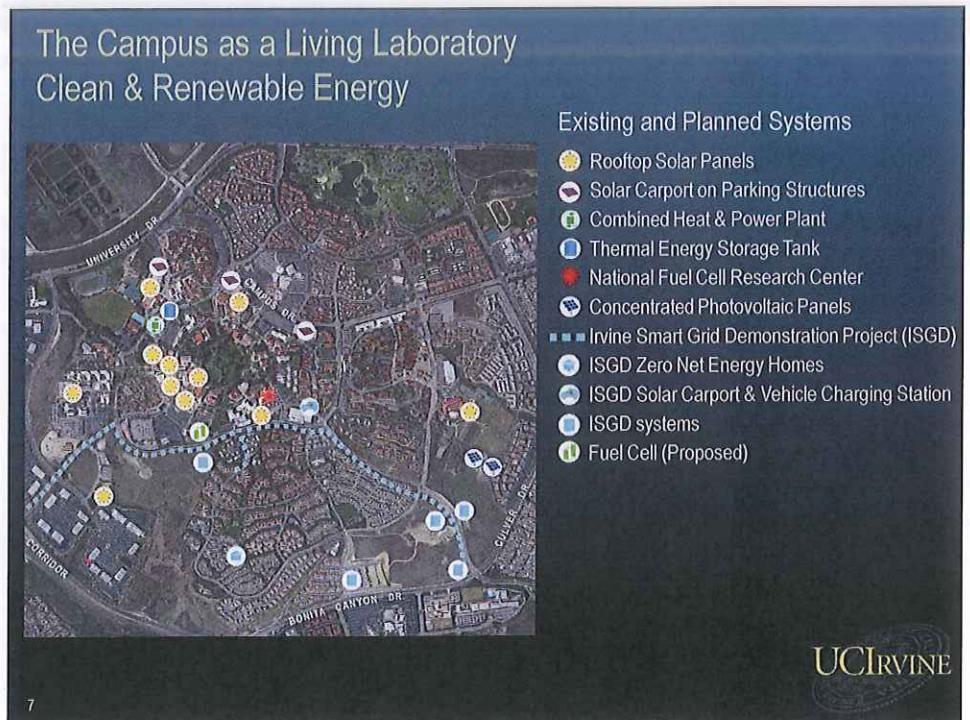
UCIRVINE



Climate Protection

- Reduce GHG emissions to 1990 levels by 2020
- Climate neutral operations by 2025
- UCI Climate Action Plan (CAP) provides roadmap of campus wide programs, projects and initiatives to achieve goals
- Community-wide engagement required to succeed
- Several CAP programs have received national recognition

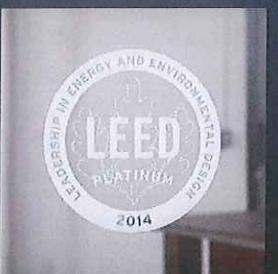
UCIRVINE



Green Building



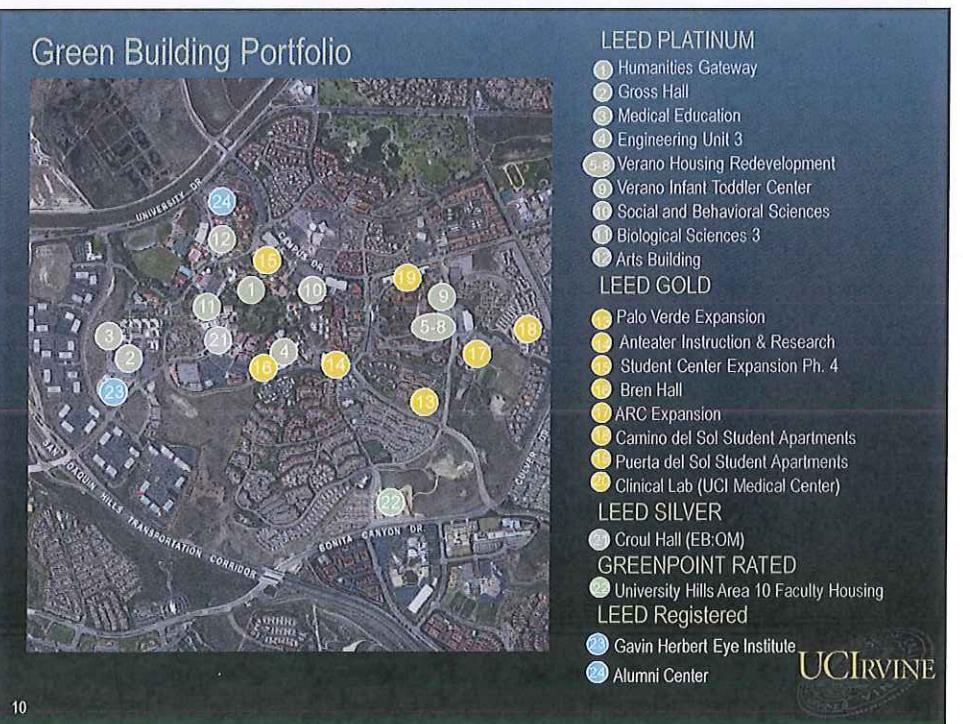
Gross Hall
LEED Platinum Laboratory Building

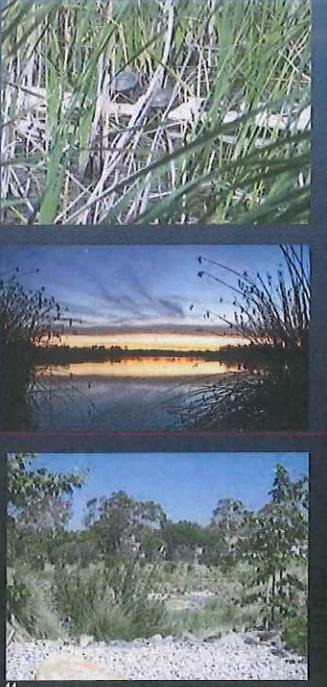


US Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) Program

- Addresses building design, construction, and operation including site, water resources , building materials, energy, and indoor air quality
- Four LEED levels "Certified", "Silver", "Gold", "Platinum"
- All new campus buildings completed since 2005 have achieved LEED Platinum or Gold rating (12 Platinum + 8 Gold)
- US Leader in LEED Gold + Platinum Buildings

UCIRVINE





Sustainable Water Systems

- Reduce per capita water use by 20% by 2020 + stretch goal of +10% (30%)
- UCI Water Action Plan
 - Identifies programs, projects and initiatives for achieving 30% goal
 - Water quality and watershed protection
- 2013-14 Drought Response
- Currently tracking ahead of 2020 goal

UCIRVINE

11

Sustainable Water Systems

Water Action Plan Strategies

Overall

- Detailed water audit for campus & Medical Center
- Improve monitoring/metering/measuring
- Laboratory Water Audit

Potable Water Reduction Examples:

- Potable irrigation conversion to recycled (14 MG annual savings)
- Plumbing retrofits/upgrades (4.5 MG annual savings)
- Autoclave retrofits (6 MG annual savings)

Recycled Water Reduction Examples

- Turf removal
- 30% irrigation reduction pilot
- Irrigation system upgrades

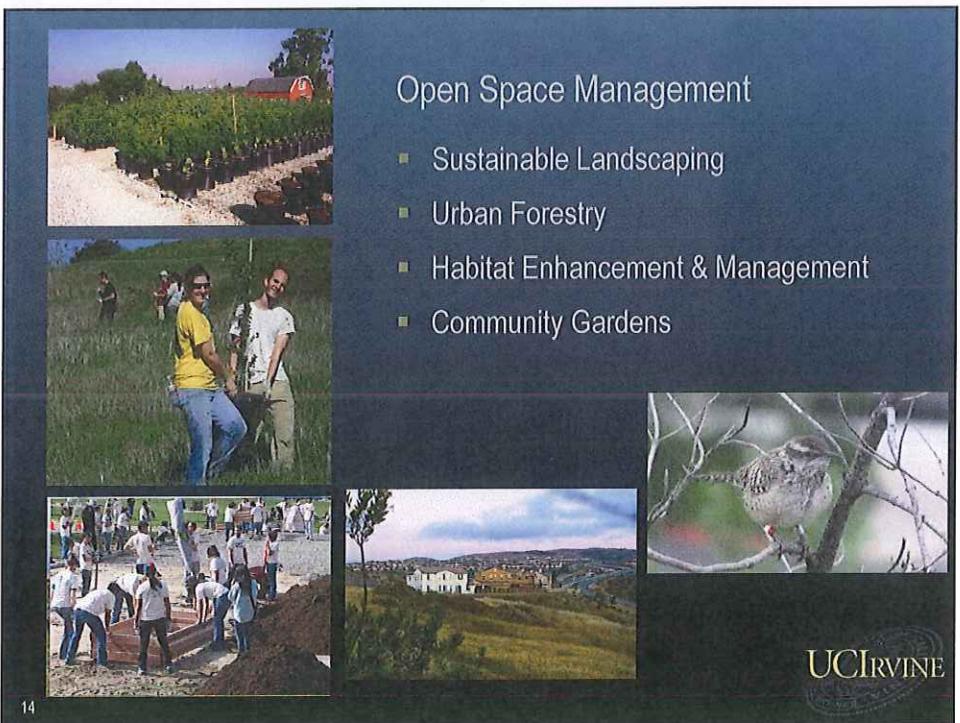
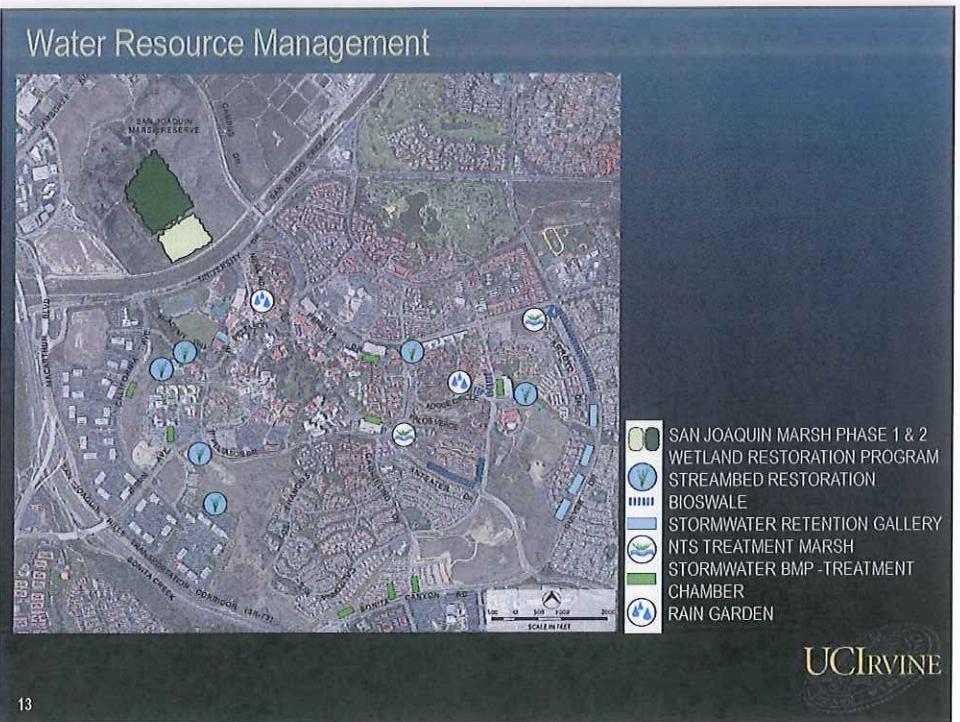
Outreach & Education

- Expand outreach & educational campaigns

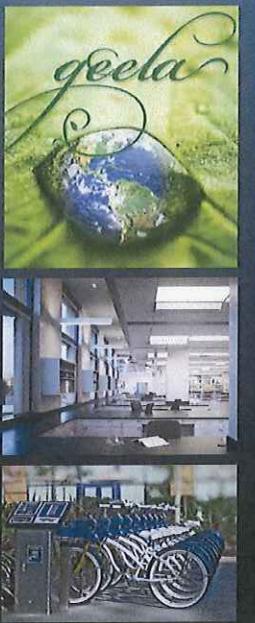
Middle Earth 101 Removal

UCIRVINE

12



National Recognition for Sustainability Accomplishments



15

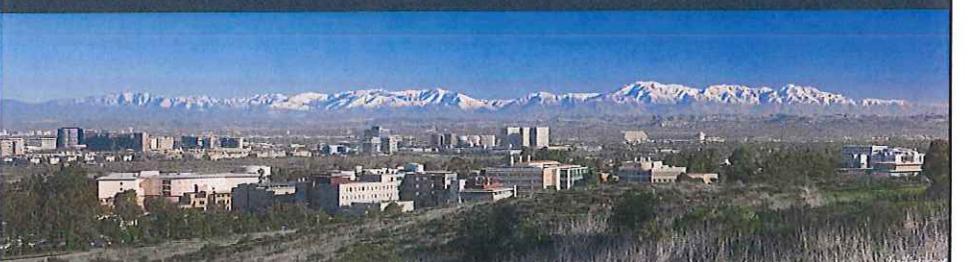
- Governor's Environmental & Economic Leadership Award (2008 & 2013)
- EPA Climate Leadership Award (2014)
- Ranked #1 in U.S. by Sierra Club Cool Schools Program (Top Ten 2010-2014)
- Princeton Review Green College Honor Roll (Top 25 in US) 2014 & 2015
- Top U.S. University in LEED Platinum Buildings
- 2011 Second Nature Climate Leadership Award
- 2011 Urban Land Institute's "Best of the Best" Award for campuswide sustainability
- League of American Bicyclists' "Bicycle Friendly University" (Silver)
- ASE & SCE Cool Planet Award for Environmental Leadership



UCI Sustainability Website

Education Research Sustainable Campus Student Involvement Engagement

www.sustainability.uci.edu



Richard Demerjian
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